SERVICE MANUAL



US Model AEP Model **UK Model** E Model PS-LX410(C): US Model Canadian Model

PS-LX410:

The PS-LX410 (AEP, UK, E Model) is supplied with a XL-250G cartridge, while the PS-LX410 (US model) is not supplied with a cartridge.

SPECIFICATIONS

Turntable

Platter

30.1 cm (12 in.), aluminum-alloy diecast

Motor

Linear torque BSL (brushless and slotless)

Direct drive Drive system

Control system

Quartz lock servo control system

Speed

331/3 rpm, 45 rpm

Starting characteristics Comes to nominal speed within

²/₃ revolution (33¹/₃ rpm)

Wow and flutter

0.025% (WRMS)* 0.03% (WRMS)

±0.045% (DIN)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK NON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ! SUR LES DIAGRAMMES SCHÉ-MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-PLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Signal-to-noise ratio 75 dB (DIN-B)

Load characteristics 0% up to 100 g stylus force (at lead-in

groove of a record) Speed deviation

Within ±0.0003%

Lead-in, return, reject, repeat Automatic system

Tonearm

Statically balanced Pivot-to-stylus length 216.5 mm (81/2 in.)

Overhang 16.5 mm (21/32 in.)

Usable cartridge

Plug-in type, 6 g

Cartridge VL-45G (supplied with some units)

Moving magnet type Frequency response 20 Hz to 20 kHz

20 dB at 1 kHz Channel separation 3.5 mV at 1 kHz, 5 cm/sec. Output voltage 47 to 100 kilohms

Load impedance

Tracking force Stylus

1.25 g Sony ND-145G

Weight

- Continued on page 2 -

STEREO TURNTABLE SYSTEM SONY

(conical 0.6 mil diamond)



PS-LX410/LX410(C)

Cartridge XL-250G

Moving magnet type Type 20 Hz to 20,000 Hz Frequency response

8 dB at 1 kHz Channel separation

Output voltage Load impedance

5 mV at 1 kHz, 5 cm/sec., 45° 47 to 100 kilohms

Tracking force

1.0 to 1.5 g (1.25 g recommended) Sony ND-250G

Stylus 6 g

Weight

General

US, Canadian model: 120 V ac, 60 Hz Power requirements

AEP model: 220 V ac. 50/60 Hz UK model: 240 V ac, 50/60 Hz

E model: 110-220 or 220-240 V ac, adjustable

50/60 Hz

Power consumption 8 W

Dimensions

Weight

Approx. $430 \times 110 \times 340 \text{ mm (w/h/d)}$

 $(17 \times 4^3/8 \times 13^3/8 \text{ in.})$

including projecting parts and controls

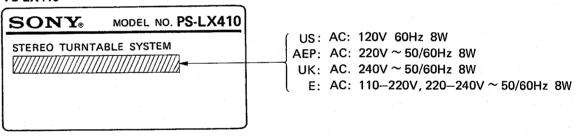
Approx. 4.7 kg (10 lbs 6 oz), net

Approx. 5.7 kg (12 lbs 9 oz), in shipping

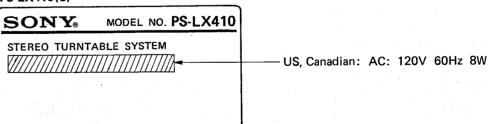
MODEL IDENTIFICATION

- Specification Label -

PS-LX410



PS-LX410(C)



FEATURES

Automatic turntable system

Automatic lead-in, return, reject and repeat functions are activated by merely pushing the buttons.

Linear torque BSL motor

Direct drive system with Sony's unique BSL (Brushless and slotless) motor which has a high signal-to-noise ratio to virtually eliminate wow and flutter. The motor's high torque assures a quick attainment of 33¹/₃ rpm after only ²/₃ revolution.

Quartz lock servo system

The turntable maintains an accurate and drift-free speed by referring to a frequency generated by a very stable quartz oscillator.

Low-mass tonearm and cartridge

The low-mass tonearm and cartridge allow the stylus to track with greater accuracy.

Resilient feet

The turntable has resilient feet that isolate the mechanism from external shock and vibration.

Disc centering guides

Disc centering guides facilitate placing a 30 cm record over the center spindle.

Wireless remote control operation

Using the optional RM-44 or RM-S410 system remote controller, start/stop play can be remotely controlled.

Notes on Repair

Check as follows when the turntable does not rotate.

- Check to see if a waveform appears at Q107-110 emitter when DC 2V is applied to D105 cathode side.
- If the waveform appears, the motor drive circuit and motor are not defective, but the servo circuit may be defective.
- 2. If the motor does not rotate after step 1, the motor drive circuit or motor, etc. may be defective.
- 2-1. Motor Check

Check for power being conducted by applying a tester to the motor coil.

2-2. Hall Element Check

Measure the resistance values between each pin. (Between pins next to each other and diagonally across from each other.) The values should be about $600-1k\Omega$.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

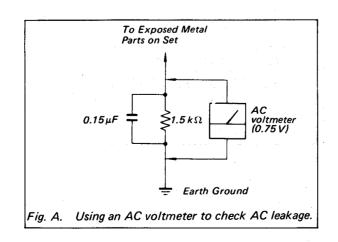
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

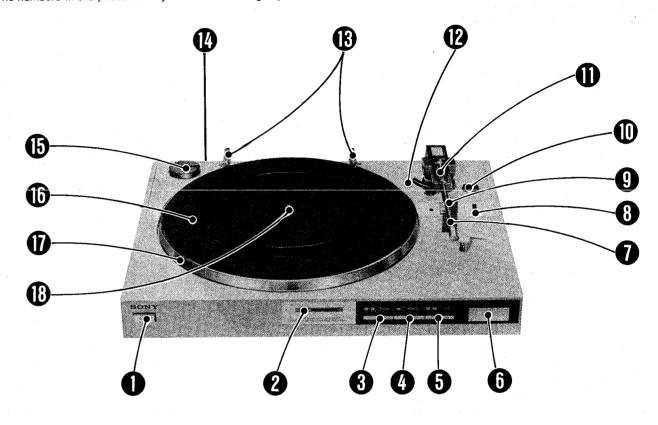
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



PARTS IDENTIFICATION

The numbers in the photo are keyed to the following explanations.



• POWER switch

Press to turn on the turntable. To turn the turntable off, press it again.

Q QUARTZ LOCK indicator

When the turntable platter starts rotating, this indicator flashes. When the platter speed is stabilized, this indicator lights up.

SPEED selector and indicators

Selects the record speed. When the POWER switch is turned on, the speed is always 33^{1/3} rpm and the indicator on the right illuminates. When the selector is pressed, 45 rpm is selected and the indicator on the left illuminates.

REPEAT button and indicator

Press this button to repeat play. The indicator illuminates and repeat play continues until this button is pressed to stop it. If the START/STOP button is pressed during repeat play, the tonearm returns to the arm rest and the turntable stops rotating.

♠ Record SIZE selector and indicators

Selects the record size. When the POWER switch is turned on, the size is always 30 cm and the indicator on the right illuminates. When the selector is pressed, 17 cm is selected and the indicator on the left illuminates.

• START/STOP button

Press this button to start the record playing, and the QUARTZ LOCK indicator flashes, then lights up. To stop during play, press it again.

Tonearm

3 ▼/▼ (cueing) lever
Used to lift or lower the tonearm.

- Arm rest
- ANTI-SKATING compensator
- Sub-weight
- P Tonearm drop-point adjustment hole
- B Disc centering guides

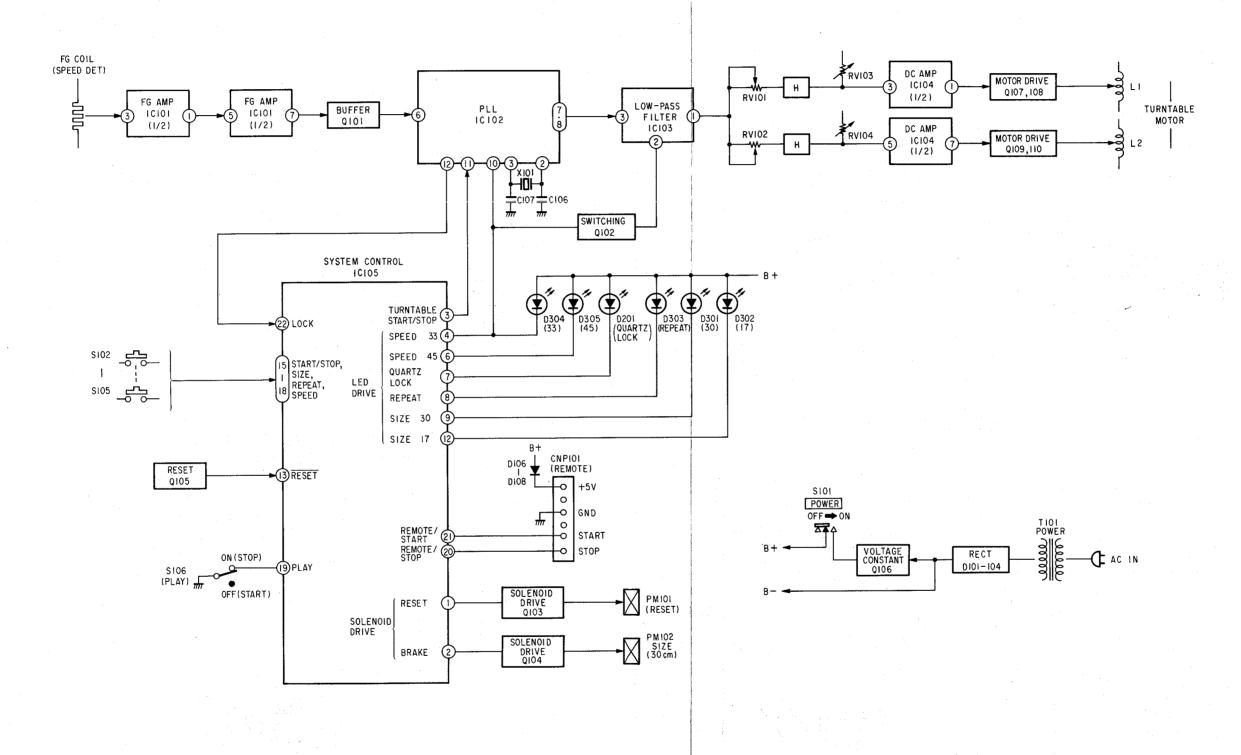
Remote connector (rear)

Connect the optional RM-44 or RM-S410 system remote controller to this connector.

- 45-rpm adaptor
- Rubber mat
- Turntable platter
- Center spindle

SECTION 1 OUTLINE

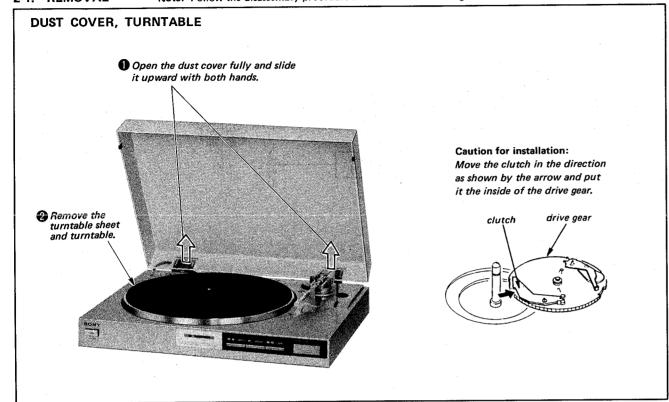
1-1. BLOCK DIAGRAM

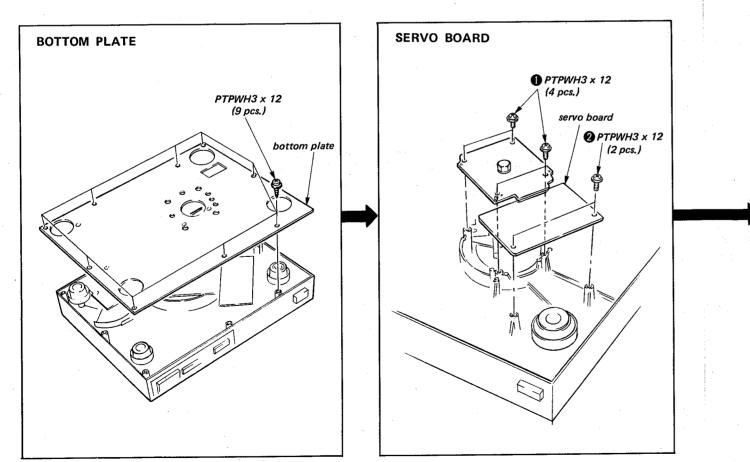


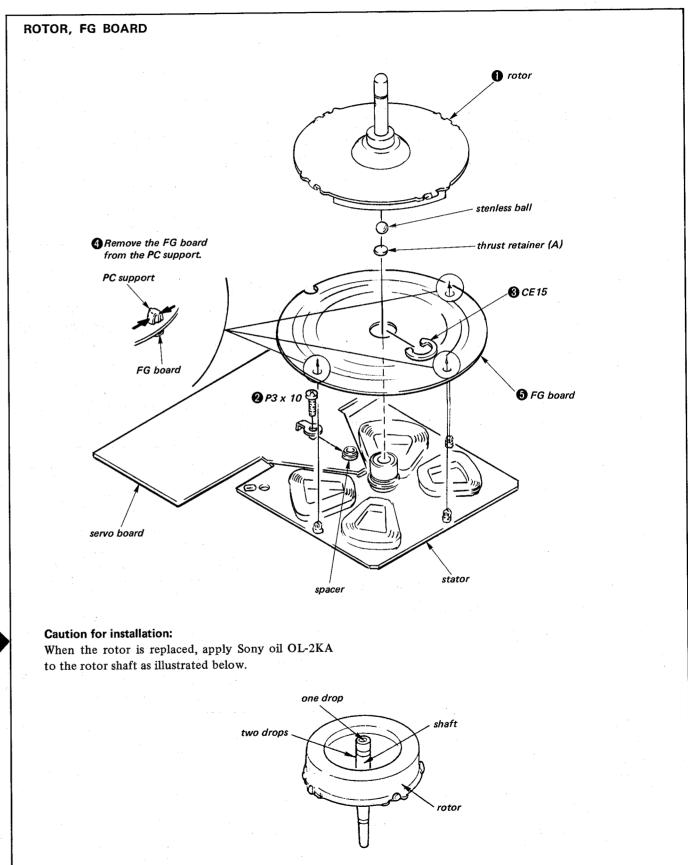
SECTION 2 DISASSEMBLY

2-1. REMOVAL

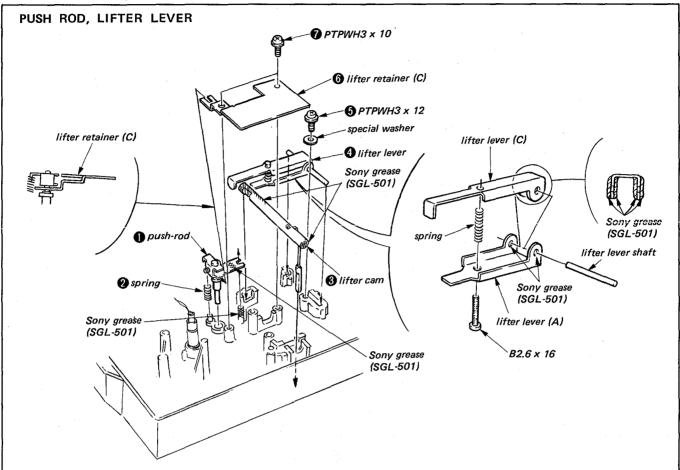
Note: Follow the disassembly procedure in the numerical order given.







2-2. INSTALLATION

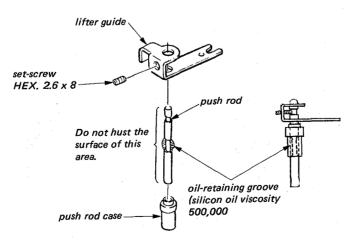


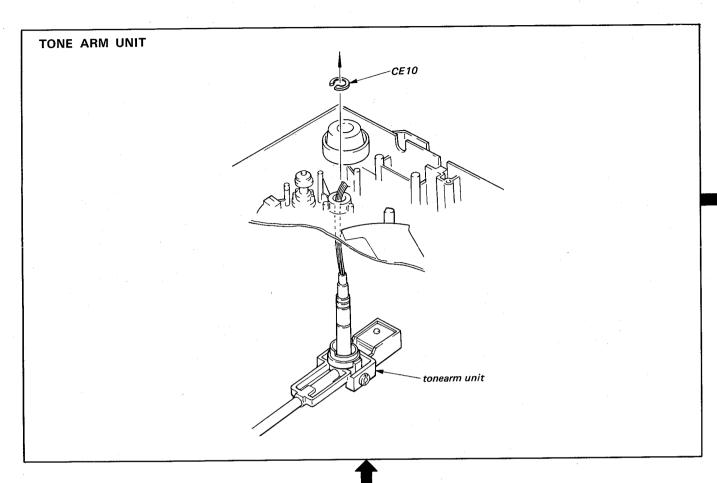
Caution for installation:

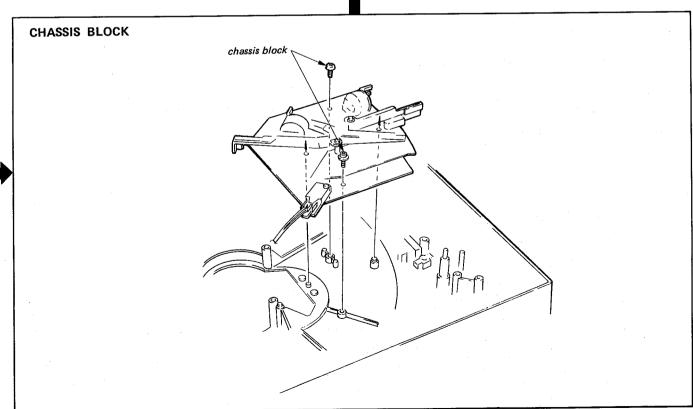
When the push rod is replaced, apply silicon oil (viscosity: 500,000 cs) to the push rod as illustrated below.

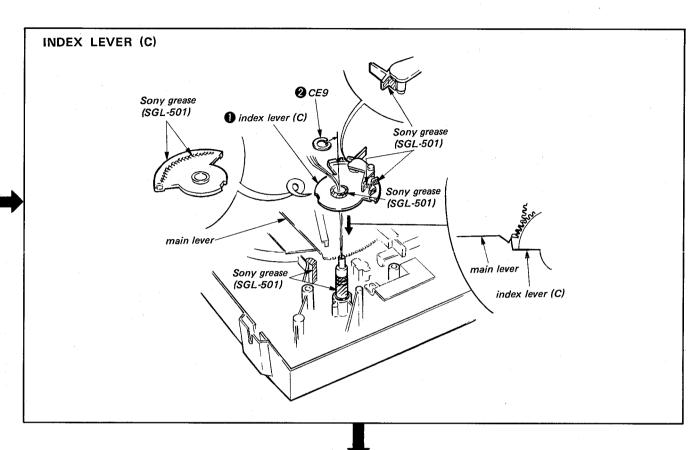
Caution:

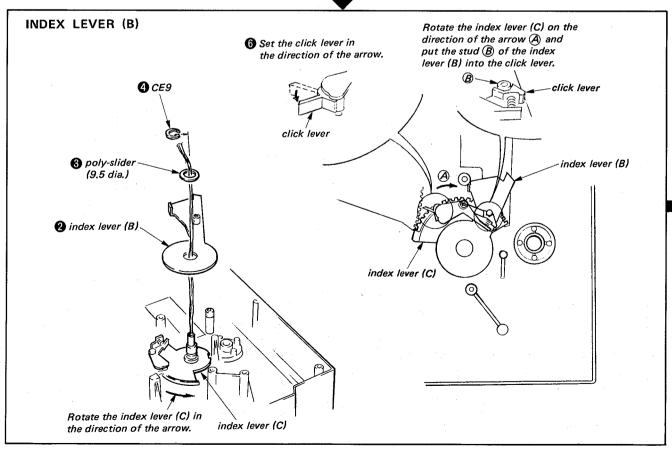
When lubricating, rotate and move the push rod up and down a few times.

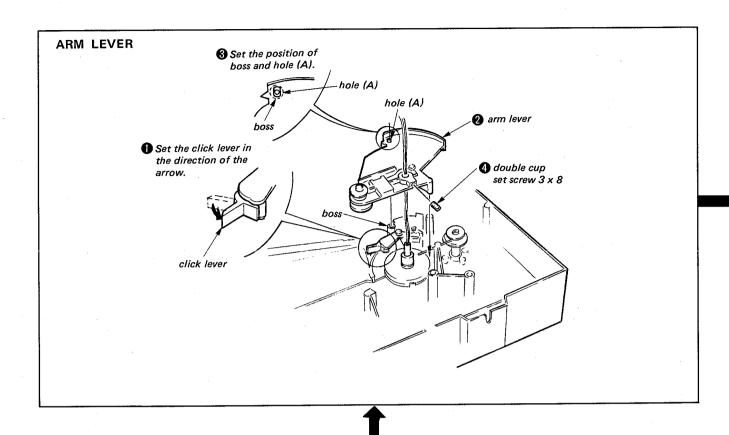


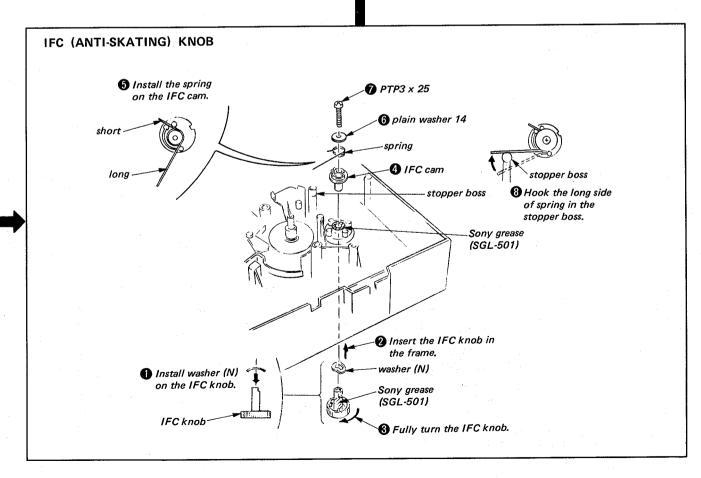


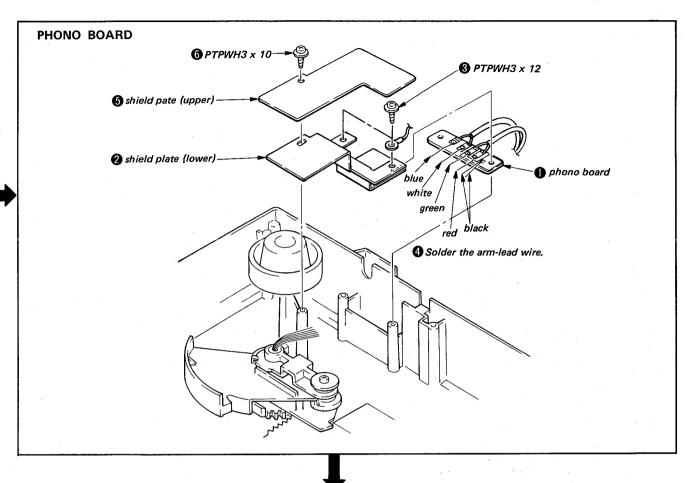


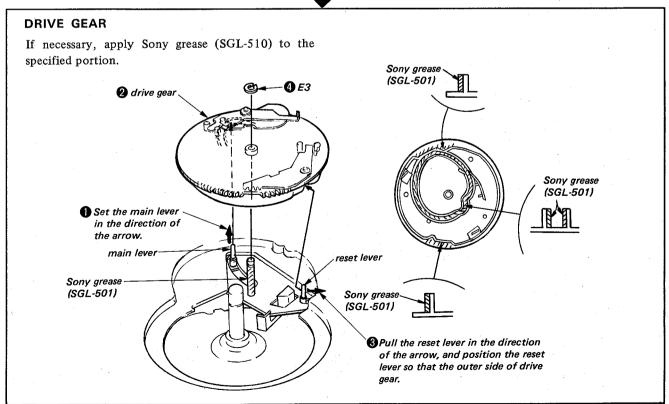


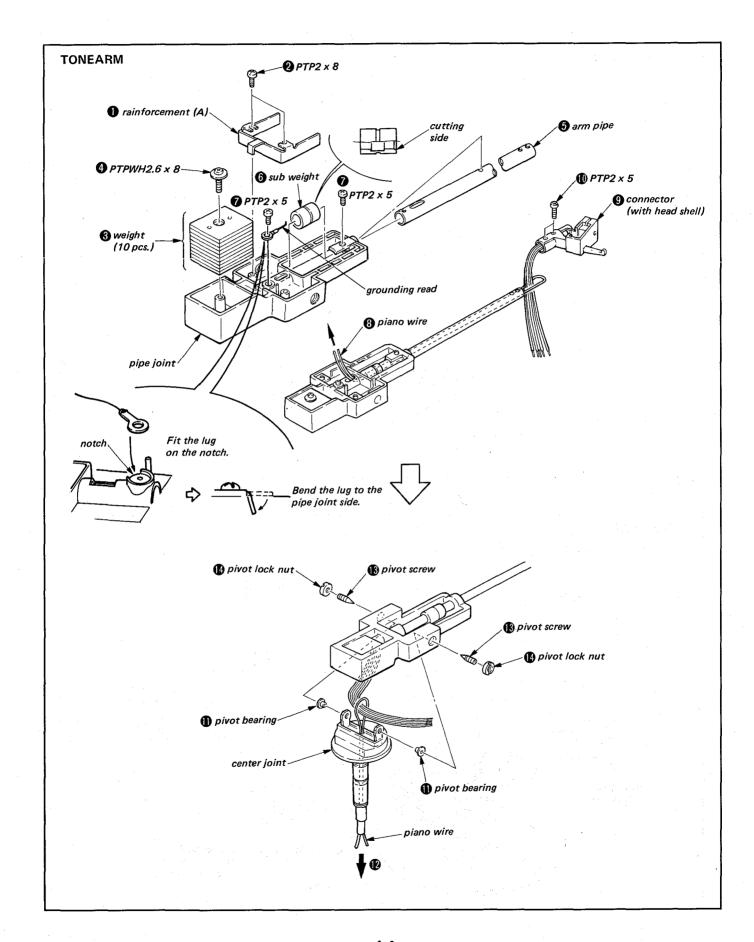






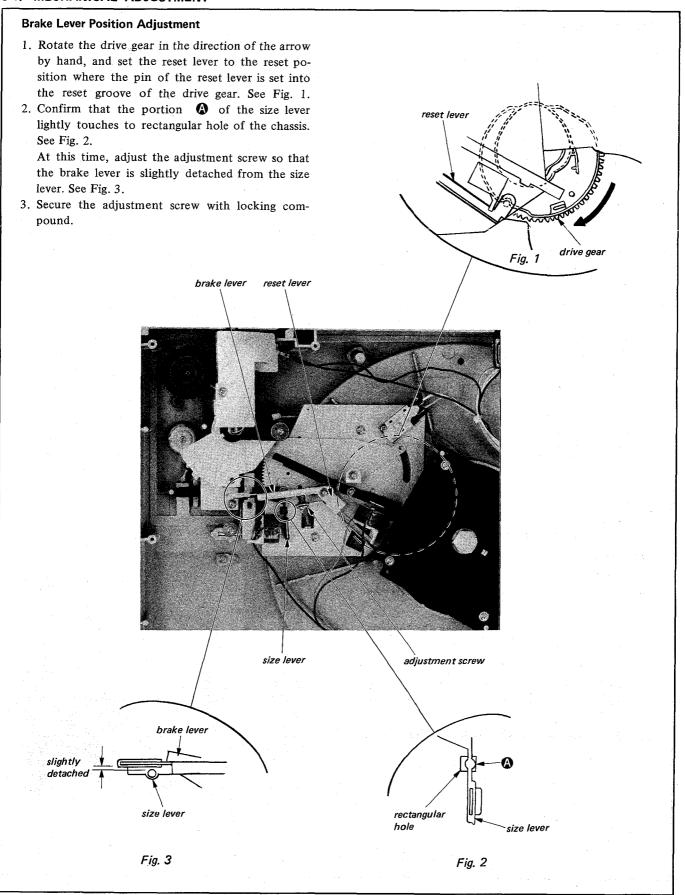






SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

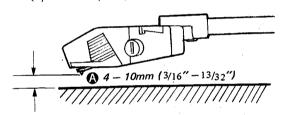


Stylus Height Adjustment

Note: Perform both adjustments for manual and automatic operations.

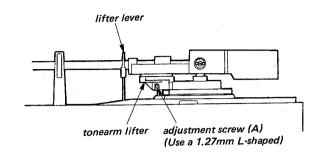
1. Automatic

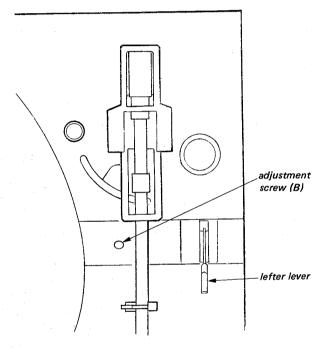
- 1-a) Put a test record on the mat.
- 1-b) Depress the lifter lever to make a lifter-down mode (∇).
- 1-c) Press the START/STOP button to start the operation.
- 1-d) Turn the POWER off just when the tonearm has moved to the automatic-return point and the tonearm lifter has started to lift the tonearm. Stop the turning of the turntable by hand.
- 1-e) Loosen the adjustment screw (A) and adjust the height of the tonearm lifter so that the stylus height becomes in 4mm to 10mm (3/16" to 13/32").

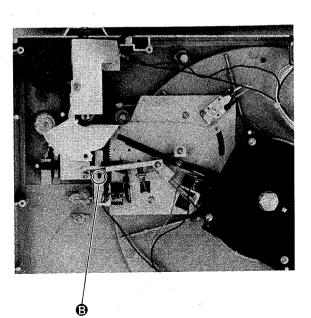


2. Manual

- 2-a) Put a test record on the mat.
- 2-b) Depress the lifter lever to make a lifter-up mode (∇).
- 2-c) Press the START/STOP button to start the operation.
- 2-d) Turn the POWER off just when the tonearm has come to the lead-in position and stopped moving.
- 2-e) Adjust the adjustment screw (B) so that the stylus height becomes in 4mm to 8mm (3/16" to 13/32").
- 2-f) Secure the portion (B) with locking compound.







PS-LX410/LX410(C) PS-LX410/LX410(C)

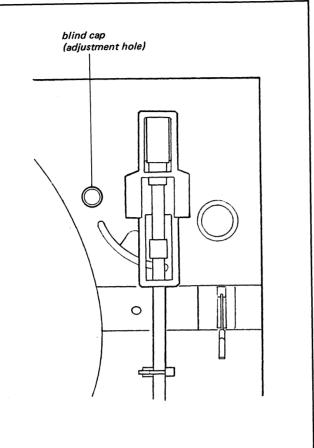
Stylus Drop-point Adjustment

- 1. Remove the blind cap.
- 2. Set the SPEED switch to 33.
- 3. Put a test record YFSC-16 on the mat.
- 4. Press the START/STOP button.
- 5. By using a hex-shaped ordinal pencil or a screw-driver, turn the adjustment screw so that the stylus tip drops on the record at the 4-16 count position.

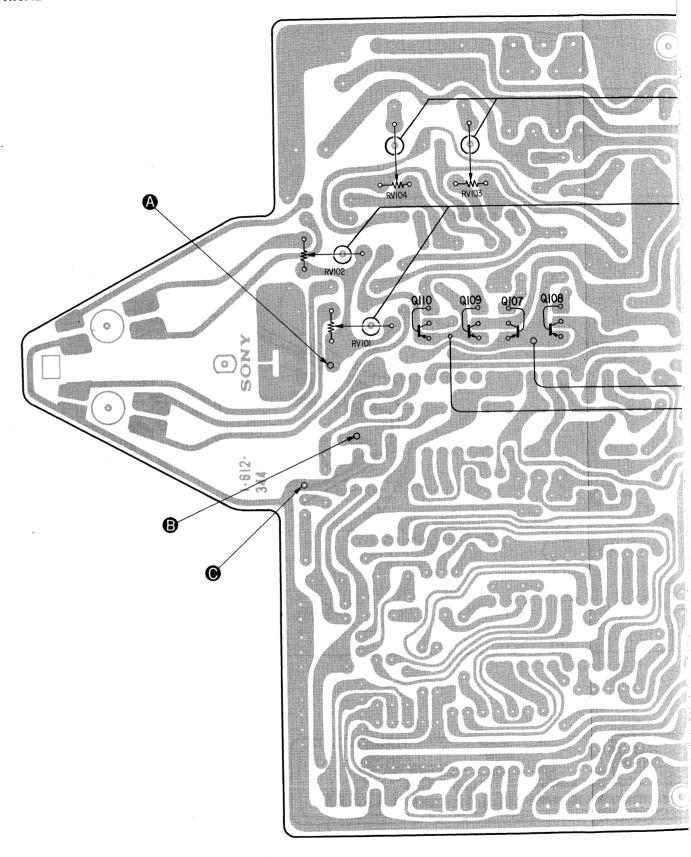
Adjustment screw rotation	Drop point
clockwise	to inside (higher counts)
counterclockwise	to outside (lower counts)

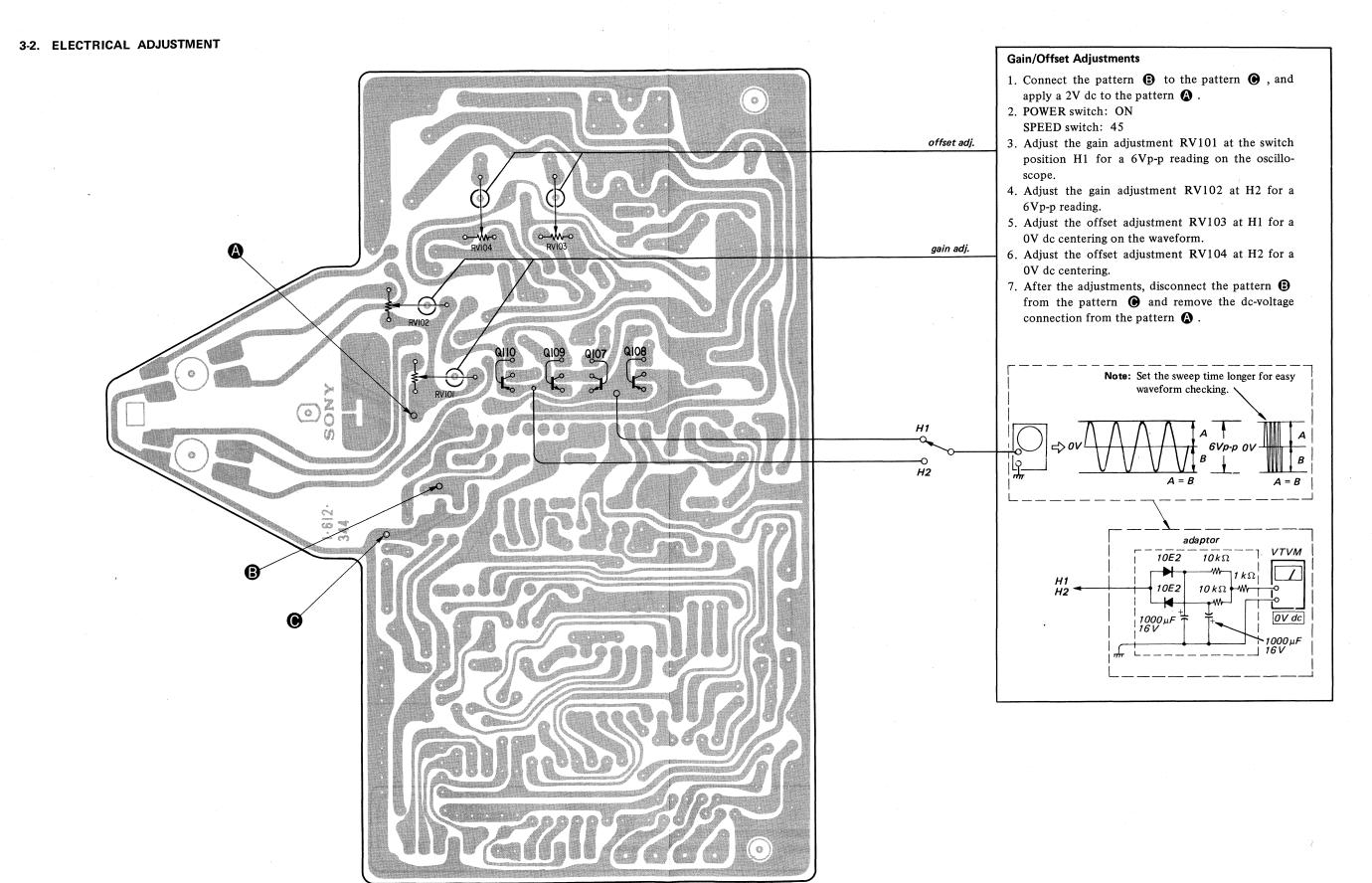
6. After the adjustment, confirm that the autoreturn is started within 3-12 count on the test record.

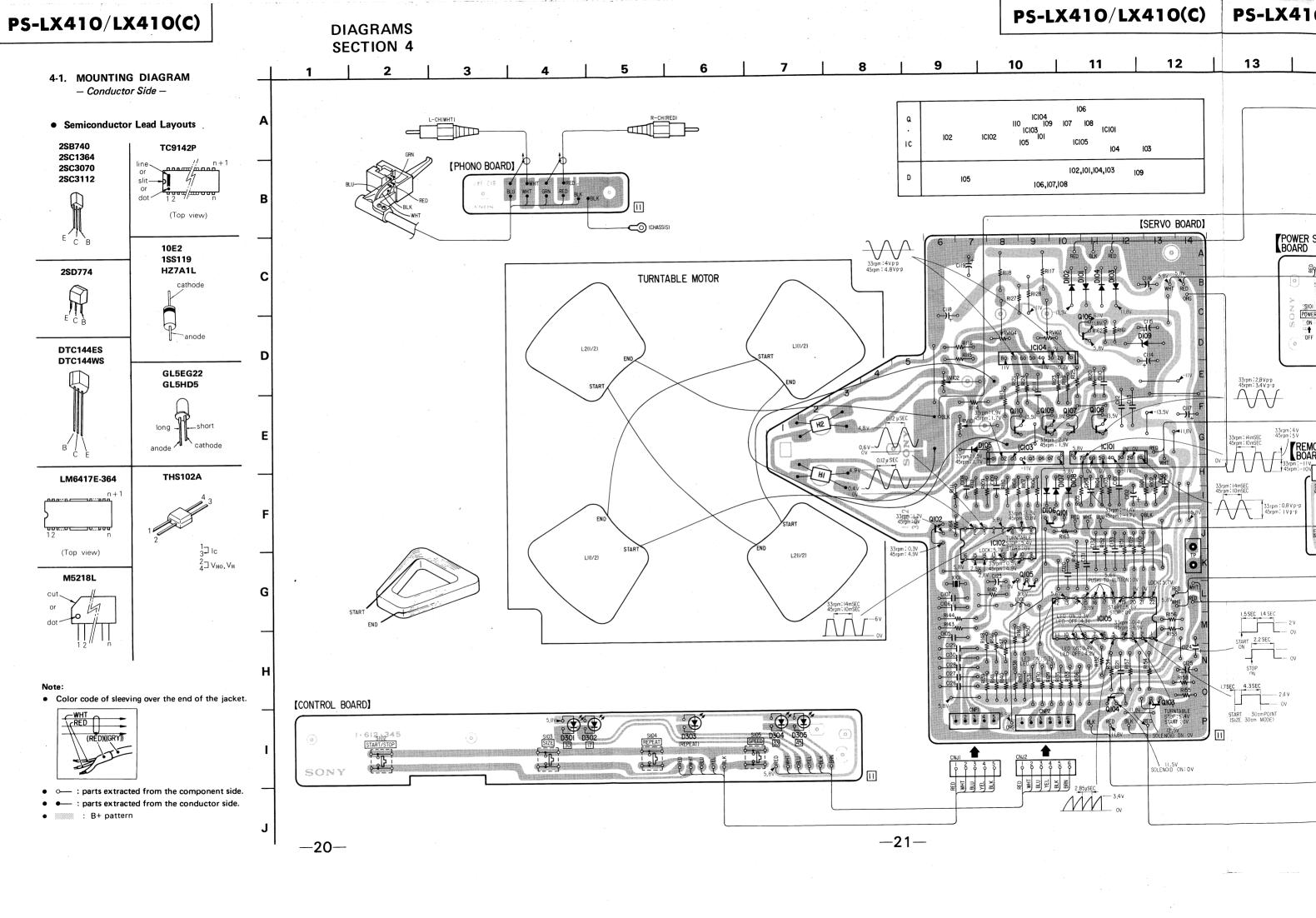
Note: The proper adjustment for a 30cm record is also correct for a 17cm record.

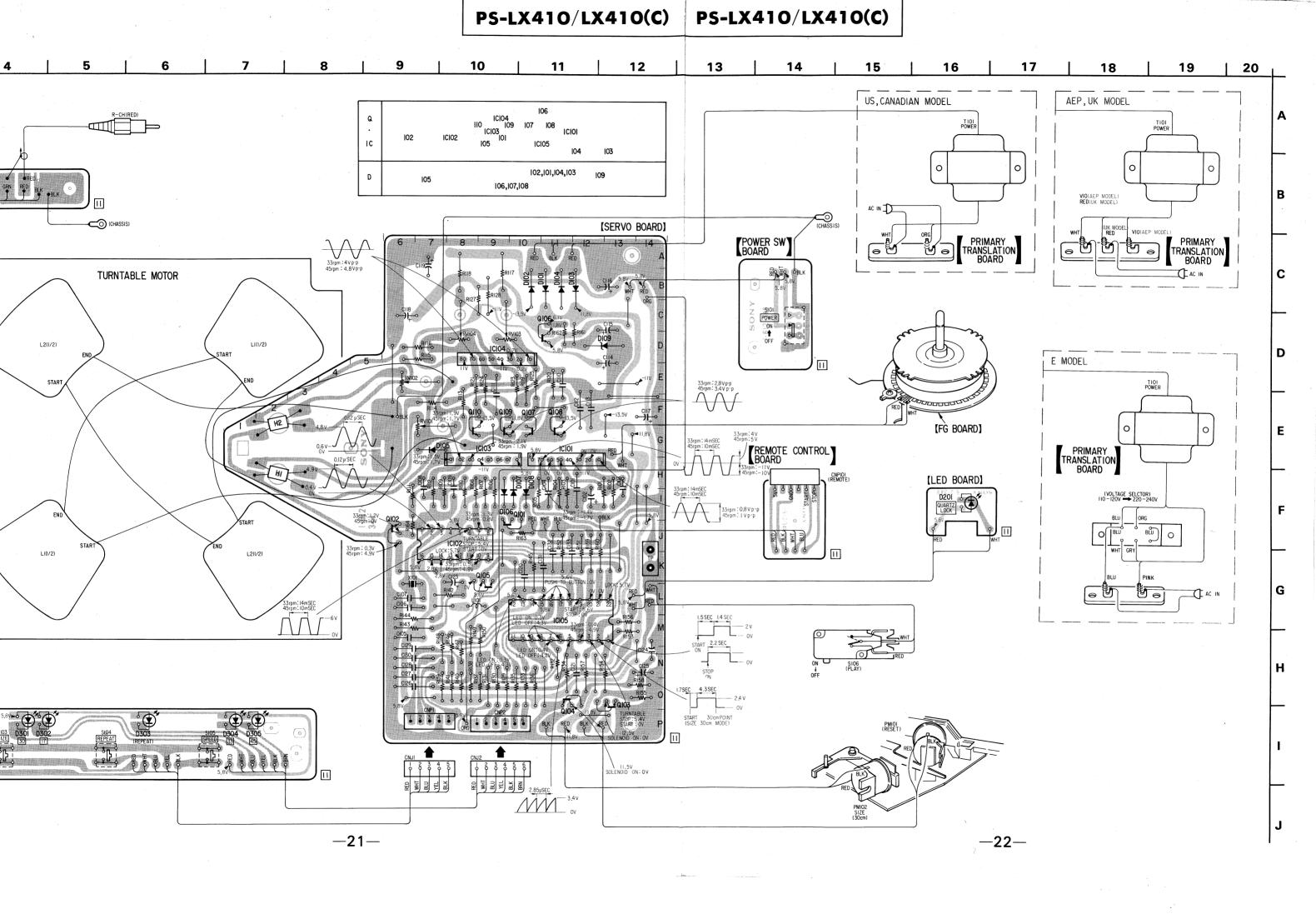


3-2. ELECTRICAL ADJUSTMENT



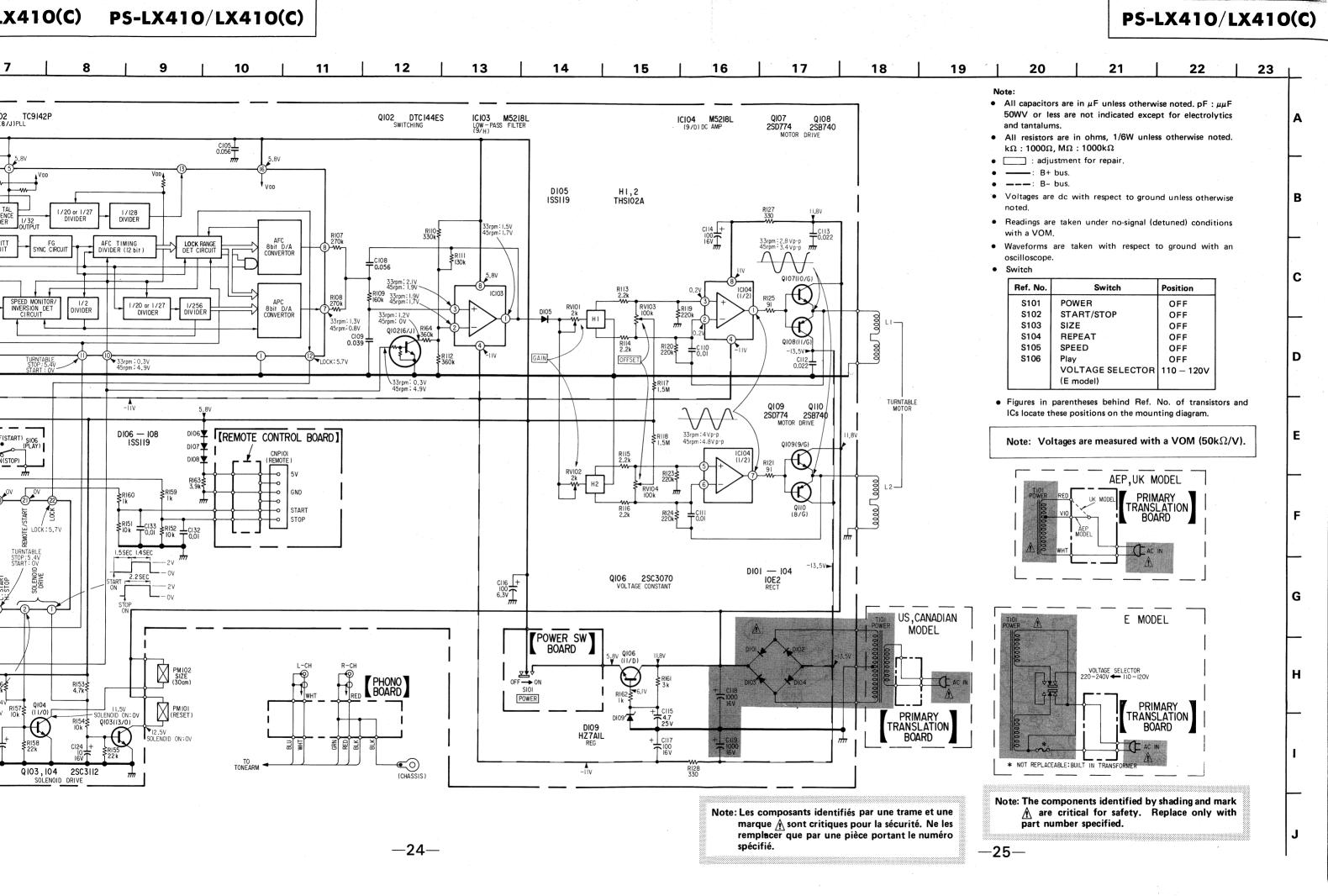




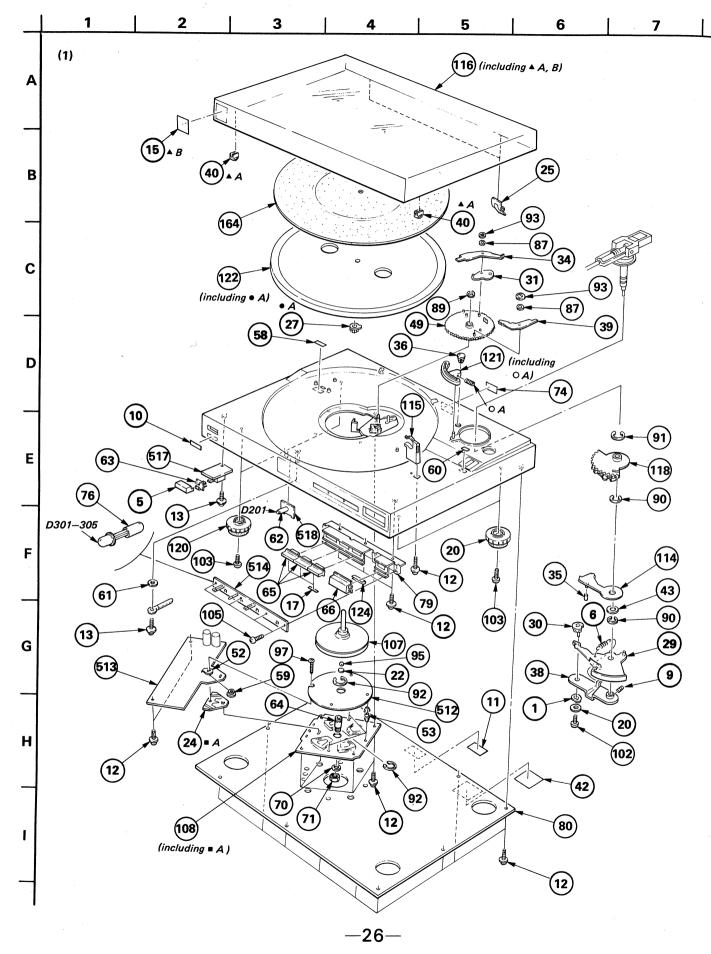


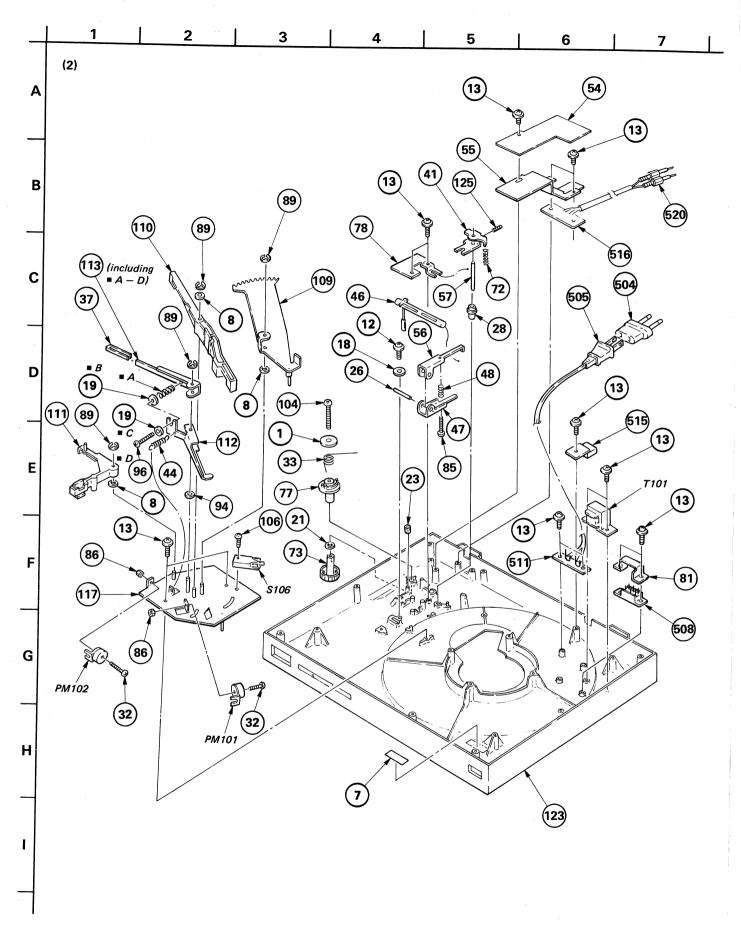
4-2. SCHEMATIC DIAGRAM 15 16 12 13 14 2 6 11 3 9 10 [SERVO BOARD] ICIOI M5218L QIOI DTC144WS IC 102 TC9142P QIO2 DTC 144ES ICIO3 M5218L LOW - PASS FILTER (9/H) C105 I IC102 2.8V D105 ISS119 HI,2 THSIO2A RI27 330 I/N X TAL REFFRENCE DIVIDER 1/20 or 1/27 DIVIDER 1/128 DIVIDER AFC 8 bit D/A CONVERTOR 33rpm : 2. 45rpm : 3. [FG BOARD] LOCK RANGE DET CIRCUIT FG SYNC CIRCUIT ₹RIII ₹I30k FG COIL (SPEED DET) 33rpm: 2.1V 45rpm: 1.9V RIO9 33rpm: 1.9V 45rpm: 1.7V APC 8 bit D/A CONVERTOR 1/20 or 1/27 DIVIDER 1/256 DIVIDER 33rpm: 1.2V 45rpm: 0V 33rpm: 1.3V 45rpm: 0.8V Cl09 0.039 Q102(6/J) R114 2.2k R120≱ 220k CI04 0.001 ▼33rpm:0.3V 45rpm:4.9V ICIO5 LM6417E - 364
(12/M) SYSTEM CONTROL RI38 ≰RI39 ≰RI40 ≰RI41 ¥I0k ¥I0k ¥I0k 33rpm:4Vp-p 45rpm:4.8Vp-p DI06 — 108 ISSI19 [REMOTE CONTROL BOARD] LED ON: 0.3V LED OFF: 4.3V OFF(START) SIO6 DI07 🛨 ICI04 (1/2) SI05 SPEED DI08 SIO4 REPEAT RI29≱ SIZE C SIO2 START/ STOP B LOCK: 5.7V LED ON: 0.3V LED OFF: 4.3V CONTROL BOARD DIOI — IOE2 RECT QIO6 2SC3070 VOLTAGE CONSTANT CI16 + 100 + 6.3V R132 ₹330 POWER SW BOARD RI35 330 D301 — 305 GL5HD5 PHONO BOARD OFF ON SIOI 1.7 SEC 4.3 SEC 4.7 K | 11.5V | SOLENOID ON: OV | RI54\$ QI03(13/0) START 30cmPOINT (SIZE 30cm MODE) \bigcirc DIO9 HZ7AIL REG [LED BOARD] (CHASSIS) RI28 330 Q105 2SC945 RESET Q103,104 2SC SOLENOID DRIVE 2503112 Note: Les comp marque <u>/</u> remplacer spécifié. **-24**-**-23**-

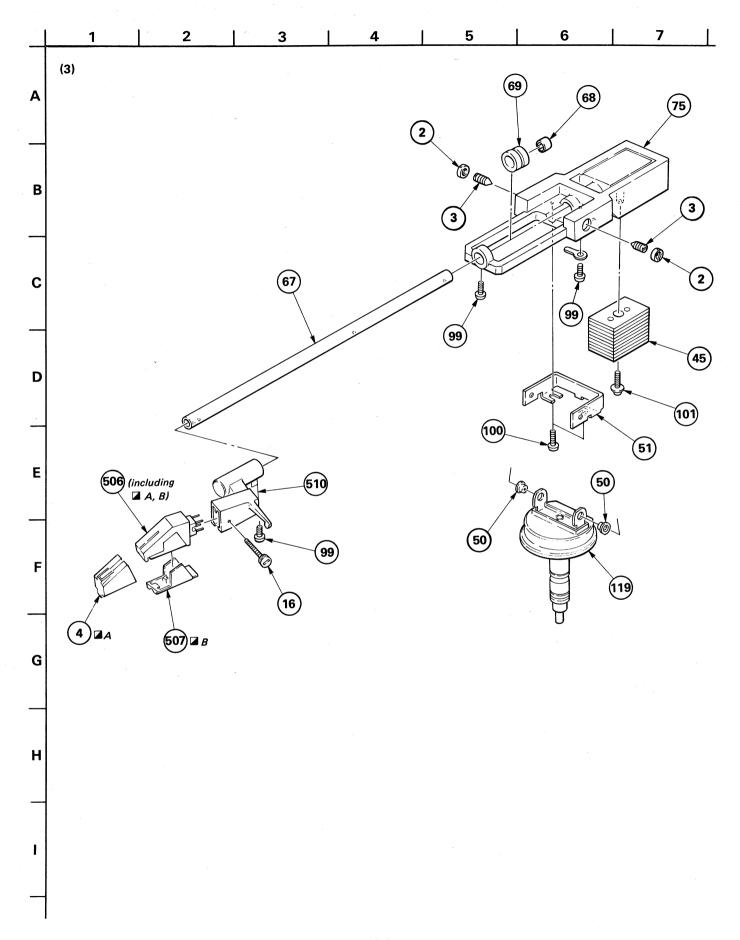
PS-LX410/LX410(C) PS-LX410/LX410(C)



SECTION 5
EXPLODED VIEWS AND PARTS LIST







GENERAL SECTION

No.	Part No.	Description
1	0-056-028-00	WASHER, PLAIN, 14 DIA.
2	2-203-518-61	SCREW, PIVOT
3	2-203-519-00	NUT (A), LOCK, PIVOT
4	2-231-824-01	(AEP,UK,E)COVER, STYLUS
4	4-903-347-01	(Canadian,PS-LX410(C))COVER, STYLUS
5 5	3-318-911-01 3-318-911-11	(SILVER)KNOB (POWER.L), T MOLD (BLACK)KNOB (POWER,L), MOLD
6	3-548-124-00	SPRING, TENSION
7	3-701-030-00	LABEL, SERIAL NUMBER
8	3-701-441-21	WASHER
9 10	3-701-509-00 5;3-701-690-00	SET SCREW, DOUBLE CUP 3X8 (UK)LABEL (MADE IN JAPAN)
11 11	3-703-043-21 3-703-845-01	(UK)LABEL, CAUTION, MAIN (US,canadian)LABEL, CAUTION, MAIN
12	3-703-136-00	SCREW, PTPWH 3X12
13	3-703-137-00	SCREW, PTPWH 3X10
14	•;3-703-678-00	LABEL, CAUTION, NEW UL
15	3-703-705-01	STICKER, SONY SYMBOL (30)
16	3-706-937-01	SCREW, SET, CARTRIDGE
17	3-831-441-XX	SPACER (SRS)
	\$;4-301-647-00 4-812-554-00 4-844-041-00	WASHER, SPECIAL WASHER WASHER, (N)
21 22 23	4-844-041-11 4-852-007-00 4-852-841-00	WASHER, (N) RETAINER (A), THRUST TUBE
24	4-857-642-00	HOLDER, PC BOARD
25	4-857-653-00	HINGE, DUST COVER
26	4;4-861-940-00	SHAFT, LIFTER LEVER
27	4-868-052-00	GEAR, CENTER
28	4-874-218-00	CASE, PUSH ROD
29	4-874-223-00	LEVER (A), ARM
30	4-874-231-00	CAM, ECCENTRIC
31	4-874-232-00	CLUTCH (R)
32	4-874-234-00	CORE
33	4-874-250-00	SPRING
34	4-874-254-00	CLUTCH (S)
35	4-874-259-00	RUBBER, SHOCK ABSORBING
36 36	4-874-260-11 4-874-260-01	(BLACK)CAP, BLIND (SILVER)CAP, BLIND
37 38 39 40	4-874-275-00 4-874-277-00 4-874-279-00 4-876-304-00	PAD, BRAKE LEVER (B), ARM CLUTCH (L) CUSHION, DUST COVER

GENERAL SECTION

No. Part No.	Description
41 4 ;4-876-317-00 42 4 ;4-876-344-00 43 4-876-324-21	GUIDE, LIFTER (AEP)LABEL, CAUTION, POWER CORD POLY-SLIDER (DIA. 9.5)
44 4-903-424-01 45 4-877-810-00 46 4-877-824-00	SPRING, TENSION (RESET) WEIGHT CAM, LIFTER
47 4 ;4-880-501-00 48 4-880-503-00 49 4-880-524-00	LEVER (A), LIFTER SPRING, COMPRESSION GEAR (S), DRIVE
50 4-881-618-00 51 4;4-881-628-00 52 4;4-881-629-00	BEARING, PIVOT REINFORCEMENT (A) PLATE (A), GROUND
53 4-881-636-11 54 • ;4-881-656-00 55 • ;4-881-657-00	SUPPORT (TMD), PC PLATE (UPPER), SHIELD PLATE (LOWER), SHIELD
56 \$;4-881-659-00 57 4-881-688-00 58 \$;4-881-683-00	LEVER (C), LIFTER ROD, PUSH (E)LABEL, VOLTAGE
59 4-885-727-00 60 ♦ ;4-885-792-00 61 4-890-173-00	SPACER PLUG IN SEAL (A) WASHER
62 \(\) ;4-901-657-00 63 \(\) ;4-902-831-01 64 4-903-304-01	SPACER (A), LED JOINT (G), KNOB BEARING
65 4-903-305-01 65 4-903-305-11	(SILVER)KNOB (SRS), T MOLD (BLACK)KNOB (SRS), T MOLD
66 4-903-306-01 66 4-903-306-11	(SILVER)KNOB (SR), T MOLD (BLACK)KNOB (SR), T MOLD
67 4-903-307-01 68 4 ;4-903-308-01 69 4 ;4-903-312-01	PIPE, ARM SHEET (S) WEIGHT, SUB
70 4-903-324-01 71 6;4-903-330-01 72 4-903-331-01 73 4-903-333-01	PACKING (TMD) NUT (TMD), BEARING SPRING (LIFTER), COMPRESSION KNOB, IFC
74 4-903-401-01 74 4-903-402-01 74 4-903-418-01 74 4-903-419-01	(AEP)LABEL, MODEL NUMBER (US,Canadian)LABEL, MODEL NUMBER (UK)LABEL, MODEL NUMBER (E)LABEL, MODEL NUMBER
75 4-903-336-01 76 4;4-903-408-01 77 4-903-409-01	JOINT, PIPE SPACER, LED CAM, IFC
78 \(\) ;4-903-410-01 79 \(\) ;4-903-412-01 80 \(\) ;4-903-416-01	RETAINER (C), LIFTER HOLDER, SWITCH, CONTROL BOARD, BOTTOM

NOTE .

- The mechanical parts with no reference number in the exploded views are not supplied.
- · Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-X)$ may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

· All resistors are in ohms.

• F : nonflammable

COILS

· MMH : mH, UH : μH

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GENERAL SECTION

No.	Part No.	Description
81 82 83	♦;4-903-421-01 7-621-712-17 7-621-738-08	(E)COVER, VOLTAGE SELECTION SET-SCREW, SLOT 2.6X2 CUP POINT SET-SCT, HEX. 2.6X4, FLAT POINT
84 85 86	7-621-775-80	SCREW +P 2.6X6 SCREW +B 2.6X16 N 2.6, TYPE 2
87	7-623-105-15	W 2,MIDDLE
88	7-623-505-01	LUG, 2
89	7-624-106-04	STOP RING 3.0, TYPE -E
90	7-624-133-44	STOP RING 9, TYPE-CE
91	7-624-133-54	STOP RING 10, TYPE-CE
92	7-624-133-94	STOP RING 15, TYPE-CE
93	7-624-190-81	STOP RING 2, TYPE-CS
94	3-701-441-11	WASHER
95	7-671-156-01	BALL, STENLESS
96	7-682-110-01	SCREW +P 3X18
97	7-682-149-13	SCREW +P 3X10
98	7-685-102-14	TOTSU PTPWH 2X4, TYPE 2, SLIT
99	7-685-103-24	SCREW +P 2X5 TYPE2 SLIT
100	7-685-105-24	SCREW +P 2X8 TYPE2 SLIT
101	7-685-134-14	SCREW, TOTSU PTPWH 2.6X8, TYPE2
102	7-685-145-14	SCREW +P 3X6 TYPE2 SLIT
103	7-685-150-14	SCREW +BVTP 3X16 TYPE2 SLIT
104	7-685-152-21	SCREW +P 3X25 TYPE2 SLIT
105	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
106	7-685-755-01	SCREW +PTT 3X14 (S)
107	A-4608-277-A	ROTOR ASSY
108 109 110	A-4608-278-A \$;X-4874-202-0 X-4874-203-0	
112 113	 ∴ X-4874-204-0 ∴ X-4874-205-0 ∴ X-4874-206-0 ∴ X-4874-209-0 	LEVER ASSY, BRAKE
115	X-4874-212-1	(SILVER)REST ASSY, ARM
115	X-4874-212-X	(BLACK)REST ASSY, ARM
116	X-4877-804-0	COVER ASSY, DUST
117	\$;X-4881-608-0	CHASSIS ASSY
118	X-4881-610-0	LEVER (C) ASSY, INDEX
119 120 121	X-4881-611-0 X-4903-301-1 X-4903-302-1	JOINT ASSY, CENTER INSULATOR ASSY PLATE ASSY, UP AND DOWN
122 123 124 125	X-4903-303-1 X-4903-401-1 3-831-441-11 7-621-741-09	TABLE ASSY, TURN FLAME ASSY SPACER (T) SEC-SCREW, HEX, 2.6X8

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
151 152 153	3-701-616-00 3-701-630-00 3-701-634-00	(US)BAG, POLYETHYLENE BAG, POLYETHYLENE BAG, POLYETHYLENE
154 155 156	3-701-806-00 3-773-847-11 3-773-847-21	ADAPTOR, 45, (E) (AEP,UK,E)MANUAL, INSTRUCTION (US,Canadian)MANUAL, INSTRUCTION
157 158 159	3-773-847-41 3-794-123-11 3-795-753-21	(AEP)MANUAL, INSTRUCTION LABEL, CAUTION (US)INSTRUCTION
160 161 162	4-858-078-00 4-862-043-00 4-874-262-00	SHEET, PROTECTION CUSHION, ARM GUIDE, RECORD
163 164 165	4-876-320-00 4-877-807-11 3-773-847-31	SPACER, CLUTCH SHEET, TURNTABLE (Canadian)MANUAL, INSTRUCTION
166 167 168	4-903-404-01 4-903-405-01 4-903-406-01	CUSHION, UPPER (LEFT) CUSHION, UPPER (RIGHT) CUSHION, LOWER (LEFT)
169 170 171	4-903-407-01 4-903-422-01 4-903-423-01	CUSHION, LOWER (RIGHT) HOLDER, ARM PLATE, PROTECTOR
172 173 174	4-903-425-02 4-903-426-02 4-903-427-01	(PS-LX410)INDIVIDUAL, CARTON (PS-LX410(C))INDIVIDUAL, CARTON HOLDER, TURUTABLE
1		

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
502 ♣ 503 ♣	;1-508-800-13 ;1-508-801-00 ;1-508-880-00 ;1-526-565-00	U TYPE BASE F U TYPE BASE F BASE POST, MO (E)AC PULC	POST 4P CD CONNECTOR	6P	
505 ⚠ 505 ⚠	.1-534-817-XX .1-551-472-00 .1-551-628-00 .1-551-884-00	(AEP)COM (E) (US,Canadian (UK)	CORD, POI)CORD, POI	VER VER	
506 506	1-549-117-00 A-4505-089-C	(PS-LX410(C)). (AEP,UK,E)			50G)
507 507	1-549-118-11 A-4587-071-C	(PS-LX410(C)) (AEP,UK,E)			
	1-552-535-00 1-560-070-00 1-562-517-11	SWITCH, VOLTA BASE POST CONNECTOR (WI			
512	1-608-536-00 1-608-883-00 1-612-344-11	PC BOARD, PRI PC BOARD, FG PC BOARD, SEF		ATION	
515	1-612-345-11 1-612-346-11 1-612-347-11	PC BOARD, COM PC BOARD, REM PC BOARD, PHO	MOTE CONTROL		
518	1-612-348-11 1-612-349-11 A-4619-237-A	PC BOARD, POW PC BOARD, LED MOUNTED PCB,)	SERVO	
C101 C102 C103 C104	1-161-494-00 1-123-318-00 1-130-636-00 1-162-110-00	CERAMIC ELECT FILM CERAMIC	0.022MF 33MF 0.22MF 0.001MF	30% 20% 5% 10%	25V 6.3V 50V 50V
C105 C106 C107	1-108-361-51 1-162-052-00 1-162-052-00	MYLAR CERAMIC CERAMIC	0.056MF 22PF 22PF	30% 5% 5%	25V 50V 50V
C108 C109 C110	1-130-629-00 1-130-627-00 1-162-113-00	FILM FILM CERAMIC	0.056MF 0.039MF 0.01MF	5% 5% 30%	50V 50V 16V
C111 C112 C113	1-162-113-00 1-161-494-00 1-161-494-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.022MF 0.022MF	30% 30% 30%	16V 25V 25V
C114 C115 C116	1-123-333-00 1-123-328-00 1-123-295-00	ELECT ELECT ELECT	100MF 4.7MF 100MF	20% 20% 20%	16V 25V 6.3V
C118 A.	1-123-333-00 1-123-324-00 1-123-324-00	ELECT ELECT ELECT	100MF 1000MF 1000MF	20% 20% 20%	16V 16V 16V
C120 C121 C123	1-162-113-00 1-162-102-00 1-123-380-00	CERAMIC CERAMIC ELECT	0.01MF 220PF 1MF	30% 10% 20%	16V 50V 50V

ELECTRICAL PARTS

ı	Dof No	Dant No	Doccrintion			
ł		Part No.	Description	*		
1	C124 C125	1-123-356-00 1-123-356-00	ELECT ELECT	10MF 10MF	20% 20%	16V 16V
	C126	1-162-113-00	CERAMIC	0.01MF	30%	16V
1	C127	1-162-113-00	CERAMIC	0.01MF	30%	16V
١	C128	1-162-113-00	CERAMIC	0.01MF	30%	16V
	C129	1-162-113-00	CERAMIC	0.01MF	30%	16V
İ	C130	1-162-113-00	CERAMIC	0.01MF	. 30%	16V
1	C131	1-162-113-00	CERAMIC	0.01MF	30%	16V
l	C132 C133	1-162-113-00 1-162-113-00	CERAMIC CERAMIC	0.01MF 0.01MF	30% 30%	16V 16V
-	A CND101	;1-560-317-00	CONNECTOR PI	N CD DEMOT	-	
	• CMF101	,1-500-317-00	CONNECTOR PI	N OF, KENOT	-	
1		.8-719-200-02 .8-719-200-02	DIODE 10E-2 DIODE 10E-2			
1		.8-719-200-02				
	D104 A	.8-719-200-02	DIODE 10E-2			
1	D105	8-719-911-19	DIGDE 1SS119			
1	D106	8-719-911-19	DIODE 1SS119			
	D107	8-719-911-19	DIODE 1SS119			
1	D108 D109	8-719-911-19 8-719-910-71	DIODE 1SS119 DIODE HZ7A1L			
1						
1	D201 D301	8-719-907-36 8-719-904-55	DIODE GL-5EG DIODE GL-5HD			
١	D302	8-719-904-55	DIODE GL-5HD			
1	D303	8-719-904-55	DIODE GL-5HD	5		
1	D304	8-719-904-55	DIODE GL-5HD	5		
l	D305	8-719-904-55	DIODE GL-5HD	5		
1	H1	0-/19-000-1/	THS102A			
1	H2	8-719-800-17	THS102A			
1	IC101	8-759-600-02	IC M5218L			
1	IC102 IC103	8-759-201-58 8-759-600-02	IC TC9142P IC M5218L	*		
1						
	IC104 IC105	8-759-600-02 8-759-800-94	IC M5218L IC LM6417E-3	64		
۱						
1	L101	1-408-894-00	MICRO INDUCT	OR 470UH		
	PM101	1-454-196-51	SOLENOID (RE			
	PM102	1-454-196-51	SOLENOID (BR	AKE)		
	0101	8-729-900-85	TRANSISTOR D			
	0102 0103	8-729-900-89 8-729-201-83	TRANSISTOR D TRANSISTOR 2			
	`					
	Q104 Q105	8-729-201-83 8-729-663-47	TRANSISTOR 2 TRANSISTOR 2			
	Q106	8-729-800-34	TRANSISTOR 2			

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ELECTRICAL PARTS

Ref.No.	Part No.	Description	<u>1</u>		
Q107 Q108 Q109 Q110	8-729-177-43 8-729-374-02 8-729-177-43 8-729-374-02	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SB740 2SD774		
R101	1-247-807-00	CARBON	100	5%	1/6W
R102	1-247-887-00	CARBON	220K	5%	1/6W
R103	1-247-859-00	CARBON	15K	5%	1/6W
R104	1-247-859-00	CARBON	15K	5%	1/6W
R105	1-247-897-00	CARBON	560K	5%	1/6W
R106	1-247-855-00	CARBON	10K	5%	1/6W
R107	1-247-889-00	CARBON	270K	5%	1/6W
R108	1-247-889-00	CARBON	270K	5%	1/6W
R109	1-247-884-00	CARBON	160K	5%	1/6W
R110	1-247-891-00	CARBON	330K	5%	1/6W
R111	1-247-882-00	CARBON	130K	5%	1/6W
R112	1-247-892-00	CARBON	360K	5%	1/6W
R113	1-247-839-00	CARBON	2.2K	5%	1/6W
R114	1-247-839-00	CARBON	2.2K	5%	1/6W
R115	1-247-839-00	CARBON	2.2K	5%	1/6W
R116	1-247-839-00	CARBON	2.2K	5%	1/6W
R117	1-202-459-00	SOLID	1.5M	5%	1/4W
R118	1-202-459-00	SOLID	1.5M	5%	1/4W
R119	1-247-887-00	CARBON	220K	5%	1/6W
R120	1-247-887-00	CARBON	220K	5%	1/6W
R121	1-247-806-00	CARBON	91	5%	1/6W
R123	1-247-887-00	CARBON	220K	5%	1/6W
R124	1-247-887-00	CARBON	220K	5%	1/6W
R125	1-247-806-00	CARBON	91	5%	1/6W
R127	1-247-819-00	CARBON	330	5%	1/6W
R128	1-247-819-00	CARBON	330	5%	1/6W
R129	1-247-823-00	CARBON	470	5%	1/6W
R130	1-247-823-00	CARBON	470	5%	1/6W
R131	1-247-823-00	CARBON	470	5%	1/6W
R132	1-247-819-00	CARBON	330	5%	1/6W
R133	1-247-823-00	CARBON	470	5%	1/6W
R134	1-247-857-00	CARBON	12K	5%	1/6W
R135	1-247-823-00	CARBON	470	5%	1/6W
R136	1-247-855-00	CARBON	10K	5%	1/6W
R137	1-247-855-00	CARBON	10K	5%	1/6W
R138	1-247-855-00	CARBON	10K	5%	1/6W
R139	1-247-855-00	CARBON	10K	5%	1/6W
R140	1-247-855-00	CARBON	10K	5%	1/6W
R141	1-247-855-00	CARBON	10K	5%	1/6W
R142	1-247-863-00	CARBON	22K	5%	1/6W
R143	1-247-863-00	CARBON	22K	5%	1/6W
R144	1-247-855-00	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R145 R146 R147	1-247-855-00 1-247-831-00 1-247-831-00	CARBON 10K 5% 1/6W CARBON 1K 5% 1/6W CARBON 1K 5% 1/6W
R148 R149 R150	1-247-831-00 1-247-831-00 1-247-831-00	CARBON 1K 5% 1/6W CARBON 1K 5% 1/6W CARBON 1K 5% 1/6W
R151 R152 R153	1-247-855-00 1-247-855-00 1-247-847-00	CARBON 10K 5% 1/6W CARBON 10K 5% 1/6W CARBON 4.7K 5% 1/6W
R154 R155 R156	1-247-855-00 1-247-863-00 1-247-847-00	CARBON 10K 5% 1/6W CARBON 22K 5% 1/6W CARBON 4.7K 5% 1/6W
R157 R158 R159	1-247-855-00 1-247-863-00 1-247-831-00	CARBON 10K 5% 1/6W CARBON 22K 5% 1/6W CARBON 1K 5% 1/6W
R160 R161 R162	1-247-831-00 1-247-842-00 1-247-831-00	CARBON 1K 5% 1/6W CARBON 3K 5% 1/6W CARBON 1K 5% 1/6W
R163 R164	1-247-845-00 1-247-892-00	CARBON 3.9K 5% 1/6W CARBON 360K 5% 1/6W
RV101 RV102 RV103 RV104	1-226-239-00	RES, ADJ, CARBON 2K RES, ADJ, CARBON 2K RES, ADJ, CARBON 100K RES, ADJ, CARBON 100K
S102	1-552-928-00 1-554-303-00 1-554-303-00	SWITCH SWITCH, KEY BOARD SWITCH, KEY BOARD
\$104 \$105 \$106	1-554-303-00 1-554-303-00 1-516-657-00	SWITCH, KEY BOARD SWITCH, KEY BOARD SWITCH, MICRO
T101 A	1.1-447-256-00 1.1-447-257-00 1.1-447-691-00	(US,Canadian)TRANSFORMER, POWER (AEP,UK)TRANSFORMER, POWER (E)TRANSFORMER, POWER
X101	1-567-259-11	VIBRATOR, CRYSTAL

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